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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	. ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,887	12/02/2003	Duncan E. Akporiaye	108495	3394
	590 01/12/2007 INTELLECTUAL PROF	EXAMINER		
PATENT SERVI		HANDY, DWAYNE K		
101 COLUMBIA P O BOX 2245 N	A DRIVE MAIL STOP AB/2B	ART UNIT	PAPER NUMBER	
MORRISTOWN		1743		
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 01/12/2007			PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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			,887	AKPORIAYE, DU	AKPORIAYE, DUNCAN E.			
Office Action Summary		Examin	er	Art Unit				
		Dwayne	K. Handy	1743				
Period fo	The MAILING DATE of this communicati or Reply	on appears on t	he cover sheet w	vith the correspondence ac	ddress			
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAILInsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF CFR 1.136(a). In no attion. y period will apply and by statute, cause the a	THIS COMMUN event, however, may a will expire SIX (6) MO application to become A	ICATION. reply be timely filed NTHS from the mailing date of this of the company				
Status								
1)⊠	Responsive to communication(s) filed or	n <u>02 December</u>	<u>2003</u> .					
2a) <u></u> □	This action is FINAL . 2b)	☑ This action is	non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice u	inder <i>Ex par</i> te (Q <i>uayle</i> , 1935 C.I	D. 11, 453 O.G. 213.				
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-21 is/are pending in the appli 4a) Of the above claim(s) 11-21 is/are with Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) 1-21 are subject to restriction a	ithdrawn from c			·			
Applicati	on Papers							
9)[The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or to the drawing(s correction is requ) be held in abeya uired if the drawing	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	• •			
Priority u	ınder 35 U.S.C. § 119							
12) <u></u> a)[Acknowledgment is made of a claim for f All b) Some * c) None of: 1. Certified copies of the priority doce 2. Certified copies of the priority doce 3. Copies of the certified copies of the application from the International life the attached detailed Office action for	uments have be uments have be ne priority docur Bureau (PCT R	een received. een received in a ments have been ule 17.2(a)).	Application No n received in this Nationa	l Stage			
Attachment	t(s)							
2) 🔲 Notic 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>12/2/03</u> .	948)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-10, drawn to a heat treatment apparatus, classified in class 422, subclass 101.
 - II. Claims 11-21, drawn to method of treating fluid, classified in class 436, subclass 180.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus can be used to perform reactions.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

3. During a telephone conversation with Ms. Maryann Maas on 6/16/06 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-10. Affirmation of this election must be made by applicant in replying to this

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Office action. Claims 11-21 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-10 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-12 of copending Application No. 10/337,070 in view of Guan et al. (6,149,882). Claims 1-12 of the '070 application recite every element of instant claims 1-10 except for the plurality of effluent conduits conducting fluid from the treatment zones and equipped with a sensing device, detection device, sample device or combination thereof. Guan teaches an apparatus for synthesizing and analyzing a plurality of compounds in parallel. The

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system is best shown in Figure 2. The system includes a plurality of reactors with each reactor having an effluent line (20) that leads to a selection valve (94). The selection valve feeds fluid to a detector (column 7, lines 32-53). It would have been obvious to combine the effluent lines, sampling valve and detector from Guan with the device of Application No. 10/337,070. One would add the features to remove compounds from the treatment zones, sample them and then analyze them.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Guan et al. (6,149,882). Guan teaches an apparatus for synthesizing and analyzing a plurality of compounds in parallel. The system is best shown in Figure 2. The system includes a plurality of feed lines (18), a plurality of treatment zones (reactors #12), a plurality of heating elements (see claims 26 and 27), and a plurality of effluent lines (20) that lead to a selection valve (94). The selection valve feeds fluid to a detector (column 7, lines 32-53). The system further includes a fluid mixing unit (22) comprising test fluid sources (52) having flow controllers (54) and valves (56) that connect to single feed line

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(60), and a diluent source (inert fluid source line #70). Given that both the feed line and

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diluent line flow into the reactors and mix, the Examiner considers the reactors to also

be "mixing zones" as required in claim 6. The Examiner considers the reaction block

shown in Figure 8 and described in columns 9 and 10 to be a heated enclosure since

the block contains the reactors - which are heated. Instant claims 2 and 3 recite six

treatment zones (claim 2) with each treatment zone having 8 chambers (claim 3).

Given that the claims do not recite physical structures for these zones, the Examiner

submits that a group of 48 vessels (claim 48) may be grouped by the operator into 6

subarrays of 8 reactors each - with each subarrray comprising a treatment zone of 8

chambers as required by the claims.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwayne K. Handy whose telephone number is (571)-272-1259. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on (571)-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DKH January 6, 2007

Supervisory Patent Examiner
Technology Center 1700

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